

## PATENT COOPERATION TREATY

PCT

COMMUNICATION IN CASES FOR WHICH  
NO OTHER FORM IS APPLICABLE

From the INTERNATIONAL BUREAU

To:

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Date of mailing (day/month/year) 19 April 2002 (19.04.02)	<b>REPLY DUE</b> see paragraph 1 below
Applicant's or agent's file reference 15-357 PCT	
International application No. PCT/US00/18568	International filing date (day/month/year) 06 July 2000 (06.07.00)
Applicant ILLINOIS TOOL WORKS, INC.	

1. ☐ REPLY DUE within \_\_\_\_\_ months/days from the above date of mailing

☐ NO REPLY DUE, however, see below

☐ IMPORTANT COMMUNICATION

☒ INFORMATION ONLY

2. COMMUNICATION:

Applicant is herewith informed, that an inconsistency was found concerning the priority claim in above mentioned international application.

In the request form the filing date of the priority claim is indicated as 07 July 1999 (07.07.99), whilst the priority document indicates a filing date of 09 July 1999 (09.07.99).

Please note that the notification of the receipt of priority document PCT/IB/304, mailed on 17 November 2000 (17.11.00), was issued in error

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The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Peggy Steunenberg

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

25 APR 2002

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Applicant's or agent's file reference 15-357 PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/18568	International filing date (day/month/year) 06 July 2000 (06.07.2000)	Priority date (day/month/year) 09 July 1999 (09.07.1999)
International Patent Classification (IPC) or national classification and IPC IPC(7): G01M 17/02 and US Cl.: 73/146.660		
Applicant ILLINOIS TOOL WORKS, INC.		

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.  
☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 0 sheets.

- This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☒ Certain observations on the international application

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Date of submission of the demand 09 February 2001 (09.02.2001)	Date of completion of this report 10 April 2002 (10.04.2002)
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer ROSE MILLER Telephone No. (703) 308-0956

*Rose Miller*

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/18568

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed.
- ☒ the description:  
pages 1-14 \_\_\_\_\_ as originally filed  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the claims:  
pages 15-18 \_\_\_\_\_, as originally filed  
pages NONE \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the drawings:  
pages 1-5 \_\_\_\_\_, as originally filed  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the sequence listing part of the description:  
pages NONE \_\_\_\_\_, as originally filed  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. NONE
- ☒ the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/US00/18568

## V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. STATEMENT

Novelty (N)	Claims <u>2-12</u>	YES
	Claims <u>1</u>	NO
Inventive Step (IS)	Claims <u>2, 4, 5, 6, 8</u>	YES
	Claims <u>1, 3, 7, 9-12</u>	NO
Industrial Applicability (IA)	Claims <u>1-12</u>	YES
	Claims <u>NONE</u>	NO

### 2. CITATIONS AND EXPLANATIONS

Claim 1 lacks novelty under PCT Article 33(2) as being anticipated by Barnette, Jr. (WO 98/04897). Barnette discloses an apparatus for improving the measurement of force variation in a tire being tested on a tire uniformity machine, comprising a loadwheel assembly, load sensors for detecting forces imposed on said loadwheel, vibration sensor for detecting vibrations in said loadwheel caused by forces other than the forces applied by said tire, and means for subtracting said vibration induced forces from said tire imposed forces whereby more precise tire uniformity data is obtained.

Claims 3, 7, and 9-12 lack an inventive step under PCT Article 33(3) as being obvious over Barnette in view of Park (US 4,489,607). Barnette teaches an apparatus for improving measurements of force variation in a tire being tested on a tire uniformity machine comprising vibration sensor for detecting vibrations in said loadwheel caused by forces other than forces applied by said tire. Park teaches the use of twin spaced piezoelectric transducers (accelerometers) for measuring the forces in a lateral and a radial direction in a dynamic vehicle tire and wheel balancing system. Therefore, one of ordinary skill would recognize the advantages of using the dual accelerometers from Park to improve the output of the test of Barnett by separating the different forces and allowing for better compensation in the tire testing.

Claims 2, 4-6, and 8 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest an apparatus for improving the measurement of force vibration in a tire being tested including a scaler for scaling a signal generated by the vibration sensor or accelerometer.

Claims 3, 7, and 9-12 meet the criteria for novelty under PCT Article 33(2) as no single reference discloses the invention claimed.

Claims 1, 3, 7, and 9-12 meet the criteria for industrial applicability as defined by PCT Article 33(4), because the present claimed invention is useful in the industry.

----- NEW CITATIONS -----  
NONE

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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**VIII. Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 2 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 2 is indefinite for the following reason(s): the phrase "said accelerometer" lacks a proper antecedent basis.